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APPLICATION NO.	. [FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,488		03/10/2004	Tae-Kyung Kim	03-ASD-160 (EM)	6132
200	7590	09/08/2005		EXAMINER	
EATON C	CORPO	ORATION	BASTIANELLI, JOHN		
EATON CENTER 1111 SUPERIOR AVENUE				ART UNIT	PAPER NUMBER
CLEVELA	ND, C	OH 44114	3751		
			DATE MAILED: 09/08/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/797,488	KIM ET AL.					
Office Action Summary	Examiner	Art Unit					
	John Bastianelli	3751					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 10 M	larch 2004.						
2a) ☐ This action is FINAL. 2b) ☒ This	s action is non-final.						
3) Since this application is in condition for allowar							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1-4</u> is/are allowed.							
6)⊠ Claim(s) <u>6-13</u> is/are rejected.							
7)⊠ Claim(s) <u>5</u> is/are objected to.	7)⊠ Claim(s) <u>5</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on 6/4/04 is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail D						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal	Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office A	ction Summary P	art of Paper No./Mail Date 20050831					

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DETAILED ACTION

Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "74" has been used to designate both spring and terminal. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 46. The drawings are objected to because 76 is in Fig. 1 twice pointing to different things. In Fig. 2, 74 is not pointing to a spring and 76 is not pointing to an electrical terminal. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to under 37 CFR 1.83(a) because they fail to show tabs 78 bent over the second flux collector (the tabs 78 are not shown as bent at all in Figs. 1 and 2) as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being

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amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: See paragraphs #1 and 2 above. It appears that on page 5, in paragraph 0014, annular locating rib should be 46.

Appropriate correction is required.

Claim Objections

4. Claims 5 and 10 are objected to because of the following informalities: In claim 5, "over said flux collector" should include which one. In regards to claims 5 and 10, see paragraph #2 above. Appropriate correction is required.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 6-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Miller et al. US

4,947,893.

Miller discloses a solenoid valve having a valve body with a first flux collector 30 with a coil

bobbin 24 having one end disposed proximate said first flux collector, a housing disposed with

said body and having first portions 13 or 15 thereof deformed for retaining said bobbin on said

body, and a second flux collector 26 disposed adjacent an end of said bobbin distal said one end,

wherein said housing has second portions 15 or 13 thereof deformed for retaining said second

flux collector. The first portions 15 of the housing seen as having a plurality of tabs formed

integrally that are bent over a flange of the bobbin (Fig. 1). The second portions 15 are seen as

having a plurality of tabs formed integrally that are bent over the second flux collector. The

housing has a generally cylindrical tubular configuration or shell and has inwardly extending

surfaces engaging the body.

Allowable Subject Matter

7. Claims 1-5 are allowed.

8. The following is an examiner's statement of reasons for allowance: The primary reason

for the allowance of the claims is the step of disposing the housing over the bobbin and

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deforming first portions of the housing over the bobbin to retain both before the step of disposing a second flux collector in the housing at a distal end of the bobbin and deforming second portions of the housing to retain the second flux collector in the housing.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Koenings, Connolly, Denk, Becker, and Slavin disclose two flux collectors in solenoid valves.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Bastianelli whose telephone number is (571) 272-4921. The examiner can normally be reached on M-F (9:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Justine Yu can be reached on (571) 272-4835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John Bastianelli Primary Examiner Art Unit 3751

August 31, 2005